

Work Order ID 163888***163888***

Page 1

Monday, July 10, 2017 12:39:56 PM

Item ID: D3914-041

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Long Basket Lid Assembly (350)

Start Date: 7/12/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/18/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date: JUL 13 2017 Tooling:

Date:

Run Start ***NR1***

QC:

Date: SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D3914

D

D4020

A

100

Weld per dwg A/R S.S. rod Batch: 138057 0.00***100***

Large Fab

Large Fab

Memo

2.77

Large Fab

1- assemble ribs, weld as per dwg D3914 using DT9607A

2- weld hinge (3) and Mounting brackets as per dwg D3914

Visual inspect before welding mesh

3- tack weld mesh on basket as per dwg D3914

Cut out mesh where label plate goes in center off basket lid as per dwg D4020-5. Make sure to place mesh correctly on lid, check with label plate before tacking mesh

1/2 9 17-08-10

110

QC9- Inspect visual per QSI004- Fusion Welds 0.00

110

QC

Memo

0.00

Quality Control

1 17-08-17 PD

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.02							
Quality Control	-Scribe Dart P/N and B/N as per dwg. Using 0.13 (minimum) high lettering per QSI 044 6.4								
130	Black Sandtex(Ref:4.3.5.7) per QSI005 4.3	0.00							
130									
Powdercoat	Memo	0.00							
Powder Coating	1-Powder coat Black Sandtex (4.3.5.7) per Dart QSI 005 4.3								
	2-Mask this area prior to finish View E-E								
	3-Mask holes prior to finish Detail D								
	4-START TIME: 2:45pm								
	OVEN TEMPERATURE: 320°F								
	FINISH TIME: 3:45pm								

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
135 *135* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00				1			QB 17-08-17
140 *140* HandFinish Hand Finishing	Wing Walk as per dwg QSI005 4.4 Batch <u>M1379.47</u> Memo 1- Mask data plate and apply wing walk on outside surface of mesh as per dwg.	0.00 0.66				1	1		10/02/21
150 *150* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.01				1			DAS 38 9-89 AUG 21 2017

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* Packaging Packaging	Identify as per dwg & Stock Location: <u>w/b</u> Memo	0.00 0.01		<u>D-1030-041 / 13163972</u>		<u>1</u>	<u>0</u>	<u>90</u>	<u>12/07/20</u>
170 *170* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10							

DAS
21
9-88

AUG 2 5 2017

DAS
21
9-88

AUG 2 2 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
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Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

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Page 1

Work Order ID: 163888

163888

Parent Item: D3914-041

D3914-041

Parent Item Name: Long Basket Lid Assembly (350)

Start Date: 7/12/2017

Required Date: 7/18/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A new issue DD 10.03.19 verified by:EC IPP Rev:B
as per dwg revB DD 10.08.18 verified by:EC IPP Rev:C 13.03.14 AS
PER DWG REV.pc1 DD VERF:JLM IPP REV:D 13.06.21 DWG
REV.C DD VERF:JFS IPP Rev.E 17.06.12 As per Dwg.Rev.D DP
VerifyDD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
✓ D3914-1 *D3914-1* Rib		Manufactured	No			100	Each	0.0000	2	2			
						B163870 → (2x)			**			2017-07-31	
✓ D3914-7 *D3914-7* Rib		Manufactured	No			100	Each	0.0000	2	2			
						B163845 → (2x)			**			2017-07-31	
✓ D4018-5 *D4018-5* Rib		Manufactured	No			100	Each	48.0000	9	9			
									**			2017-07-31	

Location

WA004
163230
163335

Loc Qty

48
18
30

Loc Code

B163335 → 9

D4035-043

D4035-043

Lid Rib Assembly, Aft (350 Basket)

Manufactured No

100 Each 6.0000 2 2

** B163326 → 2

DAS
43
9-89

AUG 09 201

Location

WA004
163231

Loc Qty

6
6

Loc Code

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

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Work Order ID: 163888

163888

Parent Item: D3914-041

D3914-041

Parent Item Name: Long Basket Lid Assembly (350)

Start Date: 7/12/2017

Required Date: 7/18/2017

Start Qty: 1.00

Required Qty: 1.00

D2581

Manufactured No

100

Each

58.0000

2

2

D2581

Mounting Bracket

**

DC 2017-07-31

Location

Loc Qty

Loc Code

WA004

58

B163743 → 2

161800

18

162923

40

D4016-3

Manufactured No

100

Each

76.0000

3

3

D4016-3

Hinge Half, Lid

**

DC 2017-07-31

Location

Loc Qty

Loc Code

WA004

76

B159570 → 3

159554

6

159570

20

160518

50

D4020-5

Manufactured No

100

Each

1.0000

1

1

D4020-5

Mesh (350 Basket Long, Lid)

**

164841 → 1.5 12-08-10

Location

Loc Qty

Loc Code

WA004

1

162298

1

D4021-3

Manufactured No

100

Each

14.0000

1

1

D4021-3

Data Plate

**

DC 2017-07-31

Location

Loc Qty

Loc Code

WA004

14

B160720 → 1

160720

14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

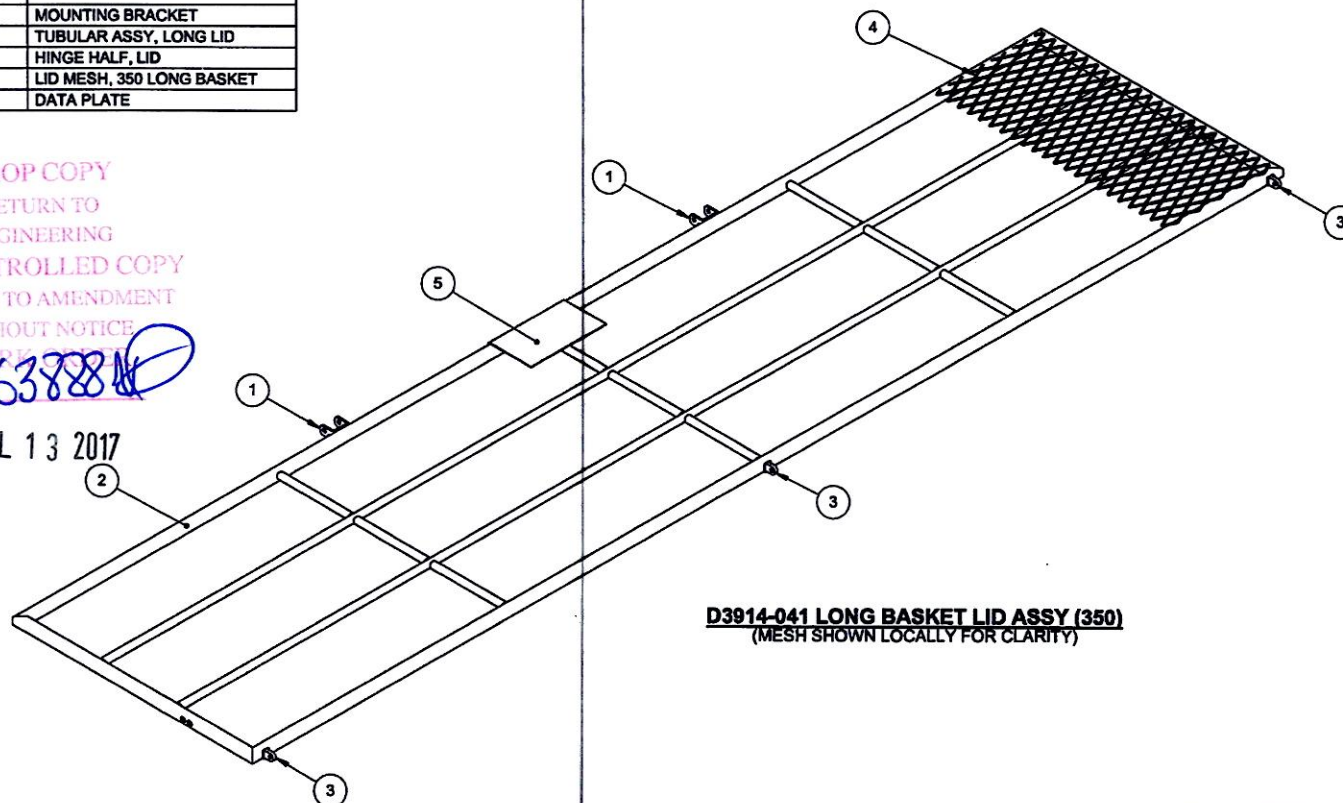
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Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

ITEM	QTY	P/N	DESCRIPTION
	X	D3914-041	LONG BASKET LID ASSY (350)
1	2	D2581	MOUNTING BRACKET
2	1	D3914-101	TUBULAR ASSY, LONG LID
3	3	D4016-3	HINGE HALF, LID
4	1	D4020-5	LID MESH, 350 LONG BASKET
5	1	D4021-3	DATA PLATE

SHOP COPY
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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER NO. 163888

JUL 13 2017



D3914-041 LONG BASKET LID ASSY (350)
(MESH SHOWN LOCALLY FOR CLARITY)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
APPLY BLACK ANTI-SKID PAINT TO OUTSIDE SURFACE OF MESH PER DART QSI 005 4.4
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: SCRIBE DART P/N AND B/N USING 0.13 (MINIMUM) HIGH LETTERING PER QSI 044 6.4
- 7) WEIGHT: 22.35 lbs APPROX
- 8) MASK HOLES PRIOR TO FINISHING
- 9) WELD PER DART QSI 004
- 10) MASK THIS AREA PRIOR TO FINISH

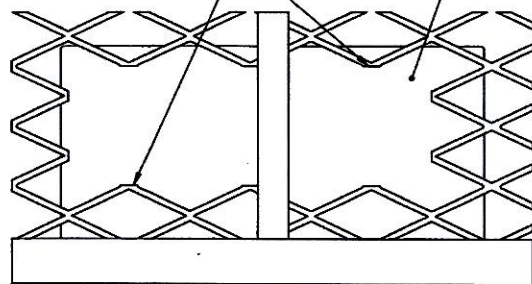
D	SHEET 1: UPDATED NOTE 8 ADDED NOTE 10. D2728-3 DELETED. SHEET 2: SECTION AND VIEW LETTERS UPDATED. ADDED VIEW E-E. (PAR15-418)	AJS	18.11.21
C	REFER TO SHEET 3 D4035-041 DELETED AND REPLACED BY D4035-043. REASON: PROPARM NO LONGER OFFERED.	AJS	13.03.13
B	REMOVED D4086-210. UPDATED DETAIL F ACCORDINGLY (AS-2). REASON: NOW INSTALLED BY OPERATORS PER D350-607-2 REV. C AND D350-607-3 REV. A.	MB	10.08.05
A	NEW ISSUE	JPH	10.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	JMH	DRAWING NO.	REV. D
MFG. APPR.	DD	D3914	SHEET 1 OF 5
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	LONG BASKET LID ASSY (350)	NTS
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RELEASED
2017-06-07
ECN 17-580

APPROVED

TACK WELD MESH
AT EVERY AVAILABLE
LOCATION

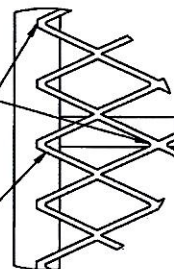
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DATA PLATE
REF



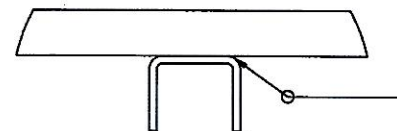
VIEW A-A
SCALE 4X

TACK WELD MESH
AT EVERY AVAILABLE
LOCATION

D4020-5
MESH



DETAIL B
SCALE 4X

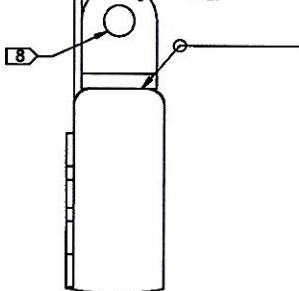


D2581
MOUNTING BRACKET
REF

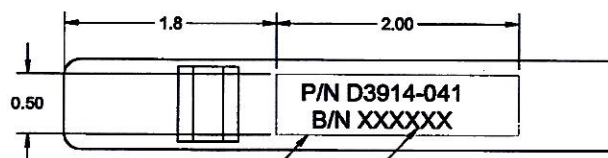
DETAIL C
SCALE 4X
2 PL

0.06

D4016-3
HINGE HALF, LID
REF



DETAIL D
SCALE 8X
3 PL



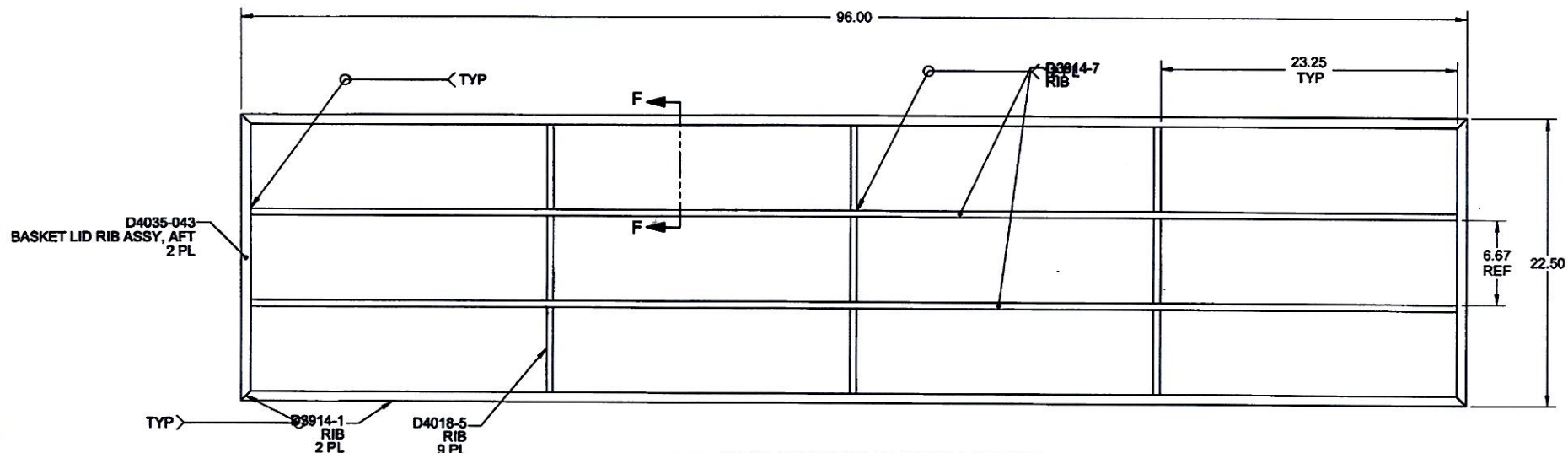
VIEW E-E
SCALE 8X

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	JMH	DRAWING NO.	REV. D
MFG. APPR.	DD	D3914	SHEET 3 OF 5
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	LONG BASKET LID ASSY (350)	NTS
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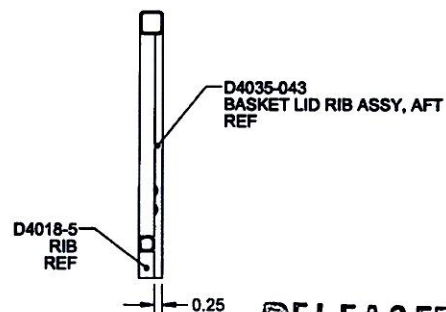
RELEASED
2017-06-07

APPROVED

ITEM	QTY -101	P/N	DESCRIPTION
	X	D3914-101	TUBULAR ASSY, LONG LID (350)
1	2	D3914-1	RIB
2	2	D3914-7	RIB
3	9	D4018-5	RIB
4	2	D4035-043	BASKET LID RIB ASSY, AFT



8 D3914-101 TUBULAR ASSY, LONG LID



NOTES:

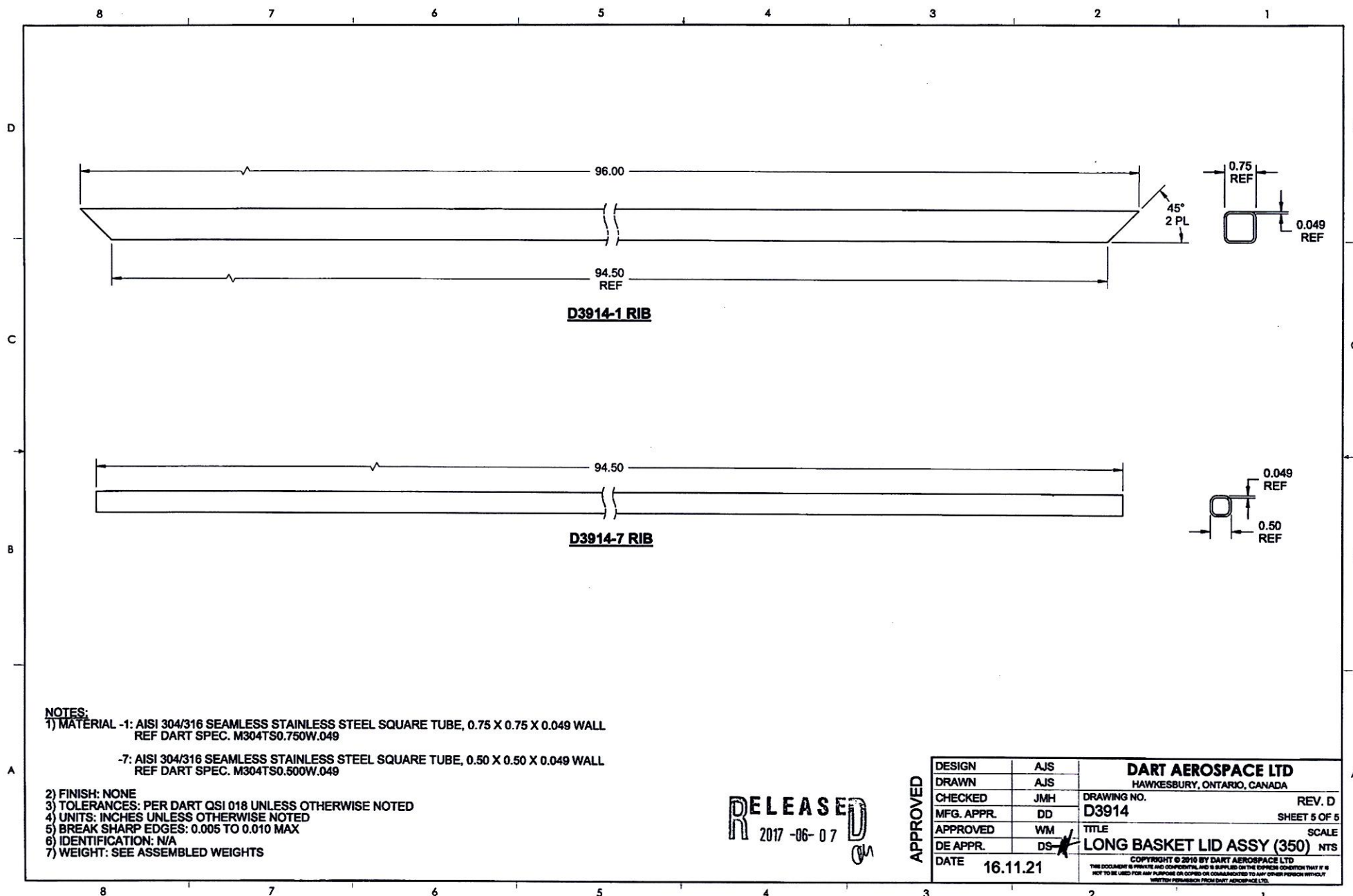
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 14.10 lbs
- 8) TOLERANCE FOR XX.XX DIMENSIONS 0.06 FOR D3914-101
- 9) WELD PER DART QSI 004

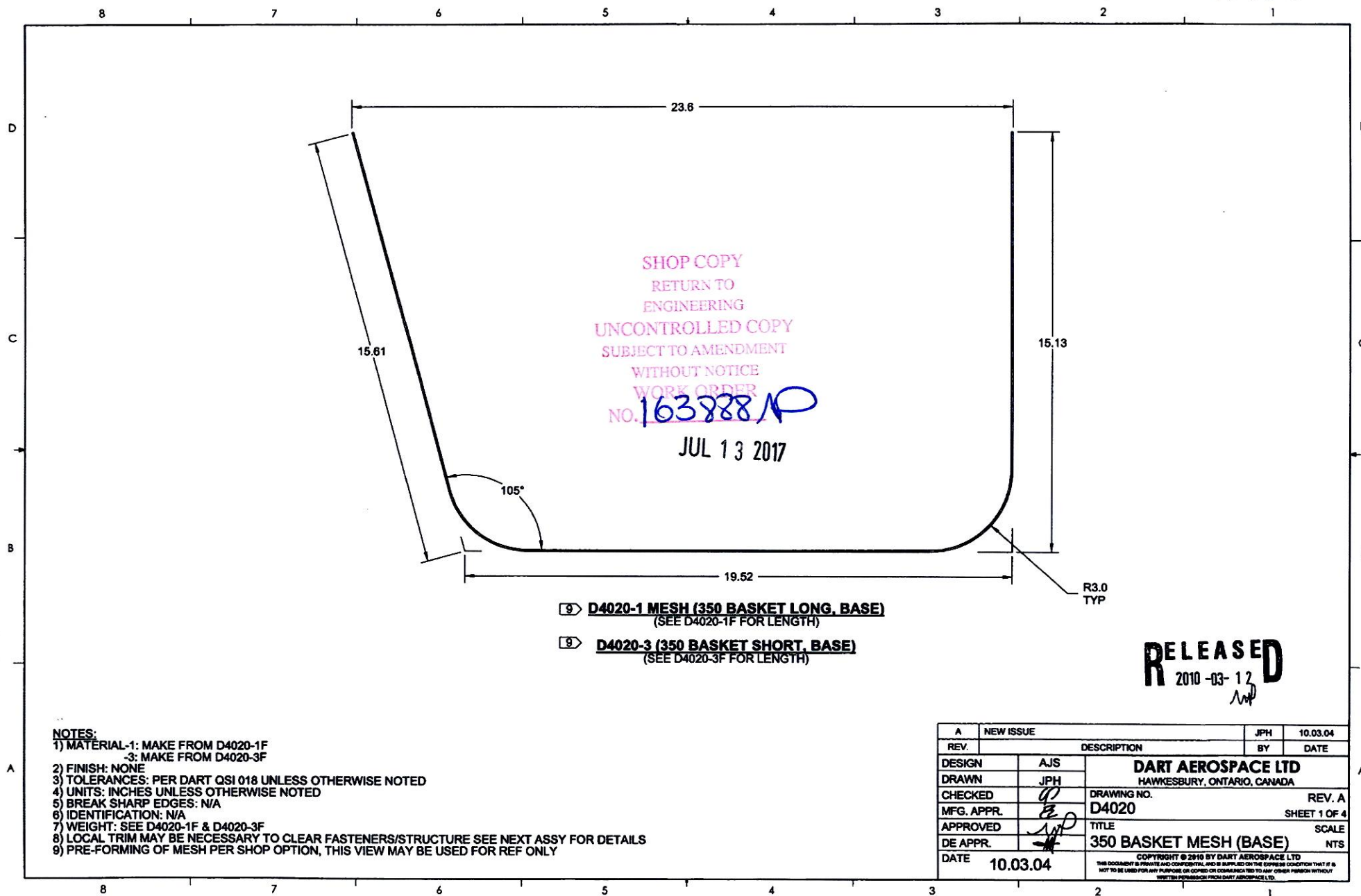
SECTION F-F
SCALE 2X

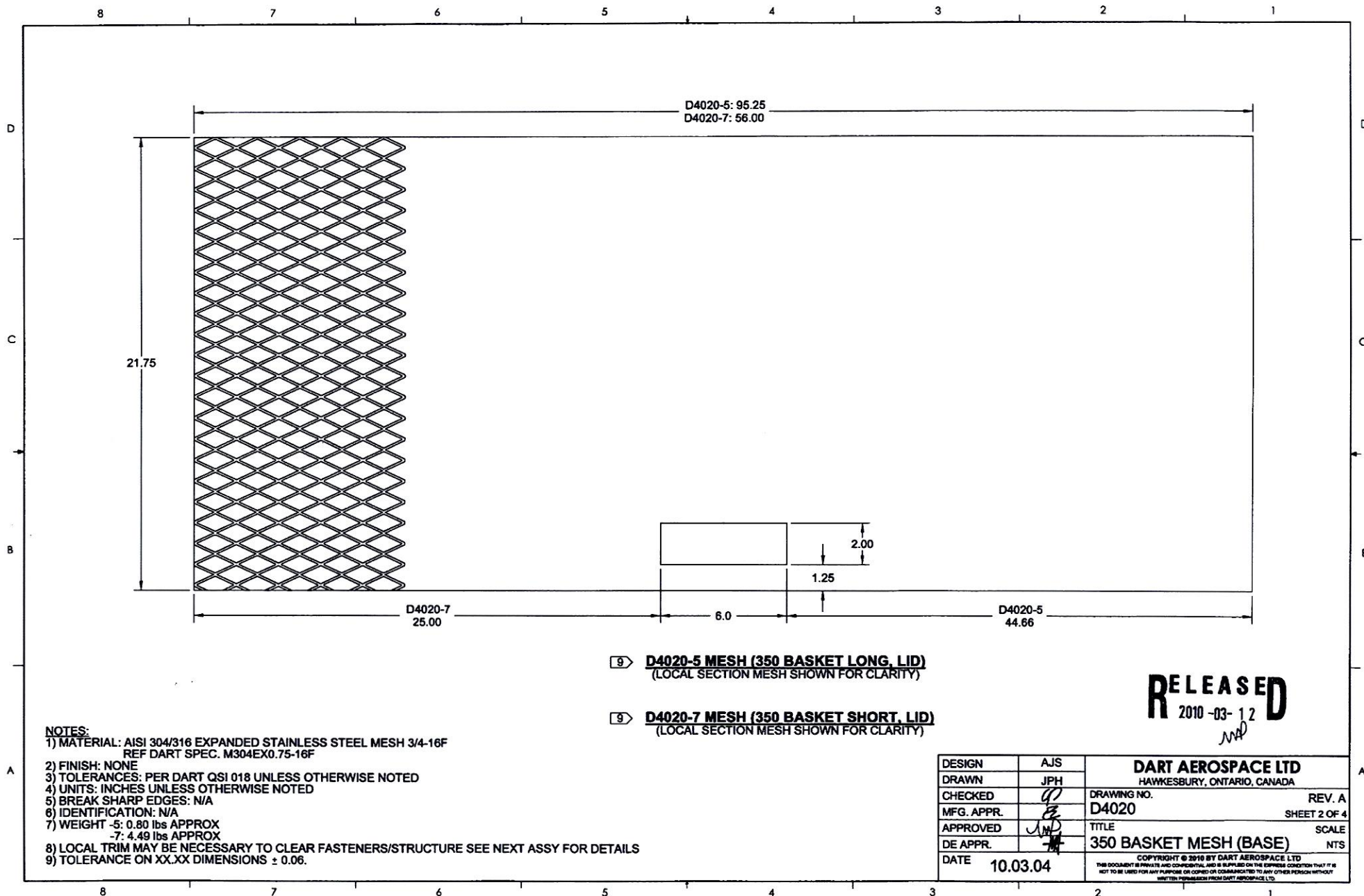
RELEASED
2017-06-07

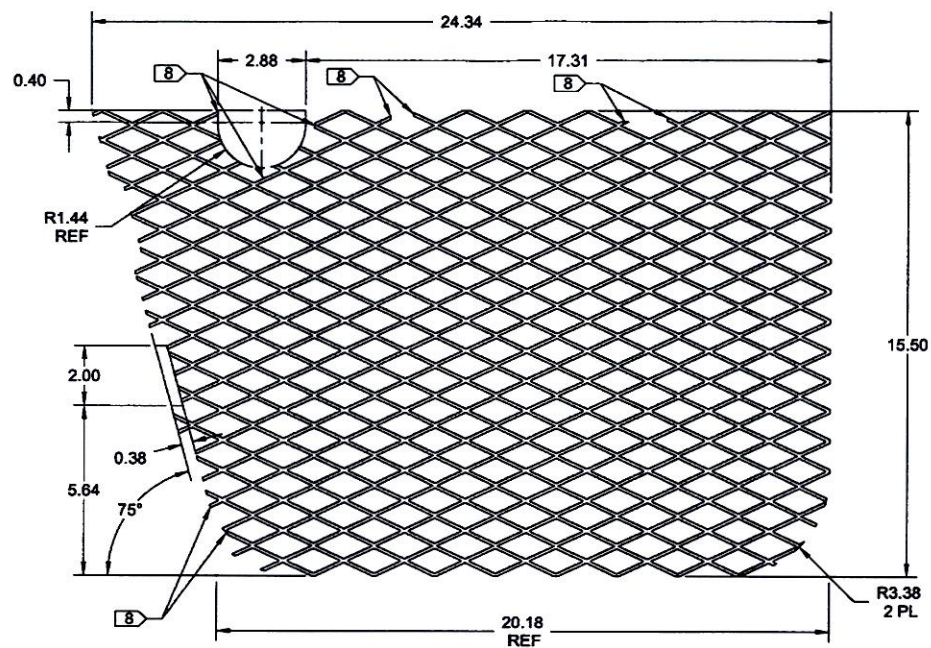
APPROVED

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	JMH	DRAWING NO.	REV. D
MFG. APPR.	DD	D3914	SHEET 4 OF 5
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	LONG BASKET LID ASSY (350)	NTS
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9) D4020-11 END MESH, BASKET

NOTES:

- 1) MATERIAL: AISI 304/316 EXPANDED STAINLESS STEEL MESH 3/4-16F
REF DART SPEC. M304EX0.75-16F
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 1.22 lbs
- 8) LOCAL TRIM MAY BE NECESSARY TO CLEAR FASTENERS/STRUCTURE SEE NEXT ASSY FOR DETAILS
- 9) TOLERANCE ON XX.XX DIMENSIONS ± 0.06 .

RELEASED
2010-03-12
JWD

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JPH		
CHECKED	<i>[Signature]</i>	DRAWING NO. D4020	REV. A
MFG. APPR.	<i>[Signature]</i>	SHEET 3 OF 4	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	350 BASKET MESH (BASE)	NTS
DATE	10.03.04	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

